1. **BeijingHouse.** Housing price of Beijing from 2011 to 2017, fetching from Lianjia.com
   - *url*: the url which fetches the data
   - *id*: the id of transaction
   - *Lng*: latitude
   - *Lat* : longitude
   - *Cid*: community id
   - *tradeTime*: the time of transaction
   - *DOM*: active days on market.Know more in https://en.wikipedia.org/wiki/Days_on_market
   - *followers*: the number of people follow the transaction.
   - *totalPrice*: the total price
   - *price*: the average price by square
   - *square*: the square of house
   - *livingRoom*: the number of living room
   - *drawingRoom*: the number of drawing room
   - *kitchen*: the number of kitchen
   - *bathroom* the number of bathroom
   - *buildingType*: including tower(1) , bungalow(2), combination of plate and tower(3), plate(4).
   - *constructionTime*: the time of construction
   - *renovationCondition*: including other(1), rough(2),Simplicity(3), hardcover(4)
   - *buildingStructure*: including unknow(1), mixed(2), brick and wood(3), brick and concrete(4),steel(5) and steel-concrete composite (6).
   - *ladderRatio*: the proportion between number of residents on the same floor and number of elevator of ladder. It describes how many ladders a resident have on average.
   - *Elevator* : have (1) or not have elevator(0)
   - *fiveYearsProperty*: if the owner have the property for less than 5 years,
   - *subway* : near subway station (1) or not (0)
2. **Student Grade Prediction.** This data approach student achievement in secondary education of two Portuguese schools. The data attributes include student grades, demographic, social and school related features and it was collected by using school reports and questionnaires.
   - *G3* final grade (numeric: from 0 to 20, output target)
   - *school* student's school (binary: 'GP' - Gabriel Pereira or 'MS' - Mousinho da Silveira)
   - *sex* student's sex (binary: 'F' - female or 'M' - male)
   - *age* student's age (numeric: from 15 to 22)
   - *famsize* family size (binary: 'LE3' - less or equal to 3 or 'GT3' - greater than 3)

- *Pstatus* parent's cohabitation status (binary: 'T' - living together or 'A' - apart)
- *Medu* mother's education numeric: 0 - none, 1: primary education (4th grade), 2: 5th to 9th grade, 3: secondary education or 4: higher education
- *Fedu* father's education numeric numeric: 0 - none, 1: primary education (4th grade), 2: 5th to 9th grade, 3: secondary education or 4: higher education
- *Mjob* mother's job (nominal: 'teacher', 'health' care related, civil 'services', 'at home' or 'other')
- *Fjob* father's job (nominal: 'teacher', 'health' care related, civil 'services', 'at home' or 'other')
- *reason* reason to choose this school nominal: close to 'home', school 'reputation', 'course' preference or 'other'
- *guardian* student's guardian (nominal: 'mother', 'father' or 'other')
- *traveltime* home to school travel time numeric: 1: < 15 min., 2: 15 to 30 min., 3: 30 min. to 1 hour, or 4: > 1 hour)
- *studytime* weekly study time numeric: 1: < 2 hour, 2: 2 to 5 hour., 3: 5 to 10 hour, or 4: > 10 hour)
- *schoolsup* extra educational support (binary: yes or no)
- *famsup* family educational support (binary: yes or no)
- *paid* extra paid classes within the course subject (Math or Portuguese) (binary: yes or no)
- *activities* extra-curricular activities (binary: yes or no)
- *higher* wants to take higher education (binary: yes or no)
- *internet* Internet access at home (binary: yes or no)
- *romantic* with a romantic relationship (binary: yes or no)

3. **1995College.** Data are from the 1995 U.S. News report on American colleges and universities. They include demographic information on tuition, room & board costs, SAT or ACT scores, application/acceptance rates, student/faculty ratio, graduation rate, and more. The dataset is used for the 1995 Data Analysis Exposition, sponsored by the Statistical Graphics Section of the American Statistical Association.
   - FICE: Federal ID number
   - Name: College name
   - State: State (postal code)
   - Type: Public/private indicator (public=1, private=2)
   - MSAT: Average Math SAT score
   - VSAT: Average Verbal SAT score
   - SAT: Average Combined SAT score
   - ACT: Average ACT score
   - APPL: Number of applications received
   - ACPT: Number of applicants accepted
   - ENROL: Number of new students enrolled
   - TOP10%: Pct. new students from top 10% of H.S. class
   - TOP25%: Pct. new students from top 25% of H.S. class

- FULL: Number of full-time undergraduates
- PART: Number of part-time undergraduates
- INSTATE: In-state tuition
- OUTSTATE: Out-of-state tuition
- LIVING: Room and board costs
- ADDT: Additional fees
- BOOK: Estimated book costs
- SPEND: Estimated personal spending
- PHD: Pct. of faculty with Ph.D.'s
- DEGREE: Pct. of faculty with terminal degree
- SFRATIO: Student/faculty ratio
- DOMATE: Pct. alumni who donate
- INSTEXP: Instructional expenditure

4. **Body.** This dataset contains 21 body dimension measurements as well as age, weight, height, and gender on 507 individuals. The 247 men and 260 women were primarily individuals in their twenties and thirties, with a scattering of older men and women, all exercising several hours a week.

Skeletal Measurements:
- BISAC: Bisacromial diameter (see Fig. 2)
- PELVIC: Bi-iliac diameter, or "pelvic breadth" (see Fig. 2)
- BIRT: Bitrochanteric diameter (see Fig. 2)
- DEPTH: Chest depth between spine and sternum at nipple level, mid-expiration
- CHEST: Chest diameter at nipple level, mid-expiration
- ELBOW: Elbow diameter, sum of two elbows
- WRIST: Wrist diameter, sum of two wrists
- KNEE: Knee diameter, sum of two knees
- ANKLE: Ankle diameter, sum of two ankles

Girth Measurements:

- SHLD: Shoulder girth over deltoid muscles
- CHESTGR: Chest girth, nipple line in males and just above breast tissue in females, mid-expiration
- WAIST: Waist girth, narrowest part of torso below the rib cage, average of contracted and relaxed position
- NAVEL: Navel (or "Abdominal") girth at umbilicus and iliac crest, iliac crest as a landmark
- HIP: Hip girth at level of bitrochanteric diameter
- THIGH: Thigh girth below gluteal fold, average of right and left girths
- BICEP: Bicep girth, flexed, average of right and left girths
- FORAM: Forearm girth, extended, palm up, average of right and left girths
- KNEEGR: Knee girth over patella, slightly flexed position, average of right and left girths
- CALF: Calf maximum girth, average of right and left girths
- ANKLEGR: Ankle minimum girth, average of right and left girths

- WRISTGR: Wrist minimum girth, average of right and left girths

Other Measurements:
- AGE: Age in years
- WEIGHT: Weight (kg)
- HEIGHT: Height (cm)
- GENDER: 1=male; 0=female

`The first 21 variables are all measured in centimeters (cm).`

5. **PlacementData.** This data set consists of Placement data of students in a XYZ campus. It includes secondary and higher secondary school percentage and specialization. It also includes degree specialization, type and Work experience and salary offers to the placed students
   - sl_no: Serial Number
   - gender: Gender- Male='M',Female='F'
   - ssc_p: Secondary Education percentage- 10th Grade
   - ssc_b: Board of Education- Central/ Others
   - hsc_p: Higher Secondary Education percentage- 12th Grade
   - hsc_b: Board of Education- Central/ Others
   - hsc_s: Specialization in Higher Secondary Education
   - degree_p: Degree Percentage
   - degree_t: Under Graduation(Degree type)- Field of degree education
   - workex: Work Experience
   - etest_p: Employability test percentage (conducted by college)
   - specialization: Post Graduation(MBA)- Specialization
   - mba_p: MBA percentage
   - status: Status of placement- Placed/Not placed
   - salary: Salary offered by corporate to candidates

6. **2004Cars.** Specifications are given for 428 new vehicles for the 2004 year. The variables recorded include price, measurements relating to the size of the vehicle, and fuel efficiency.
   - Name: Vehicle Name
   - Sprt Car: 1=Sports Car; 0=no
   - Sprt Utily: 1=Sport Utility Vehicle; 0=no
   - Wagon: 1=yes; 0=no
   - Minivan: 1=yes; 0=no
   - Pickup: 1=yes; 0=no
   - Drive: all=all-wheel drive; front=front-wheel drive; rear=rear-wheel drive
   - SMRP: suggested manufacture retail price (U.S. Dollars)
   - Dealer: "invoice price", what the dealership pays the manufacturer (U.S. Dollars)
   - Engine: engine size (liters)
   - Cylinder: Number of Cylinders (=-1 if rotary engine)
   - Hrpw: Horsepower
   - City: City Miles Per Gallon
   - Highway: Highway Miles Per Gallon
   - Weight: Weight (Pounds)

- Wheel: Wheel Base (inches)
- Length: Length (inches)
- Width: Width (inches)